

# MOXA *EtherDevice Server*™



**The world's first intelligent device server specially designed for connecting Ethernet-enabled devices in industrial field applications**

MOXA EtherDevice Server™ establishes a new Industrial Ethernet benchmark with its combination of state-of-the-art Ethernet switching technology and suite of useful maintenance and monitoring functions, making MOXA EtherDevice Server™:

- ✓ Excellent for keeping automation systems running continuously
- ✓ Ideal for sending status reports to help prevent system damages and losses
- ✓ A great tool for mastering your industrial Ethernet networks
- ✓ Well-suited for use with industrial device control networks

Future-proof your investment with MOXA EtherDevice Server's ultimate reliability and informative management functions!

## Features

### Excellent for keeping automation systems running continuously

- Line-swap fast recovery (patent pending)
- Redundant Ethernet Ring capability
- Redundant power inputs
- Watch-dog self-saver™
- Hardened design for harsh environments
  - ◆ -20°C to 70°C for cold and hot climates
  - ◆ IP 30, rugged high-strength case
  - ◆ DIN-Rail or panel mounting ability

### Dynamically know the status of networked industrial devices

- Automatically sends warning e-mail when an exception is detected
- Automatically sends warning e-mail when Ethernet traffic builds up
- Signals the system administrator via a Digital Output (DO) line when a malfunction occurs

### Key management functions let you easily master your industrial Ethernet network

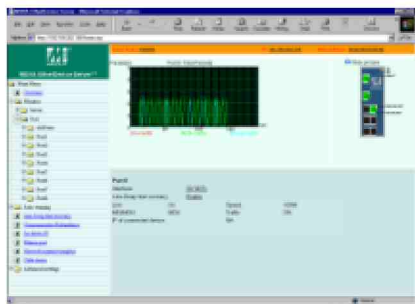
- Set up a mirroring port for better online data monitoring
- Assign IP addresses to connected devices
- Send *ping* commands to identify network segment integrity
- Easily test cable wiring

## Benefits

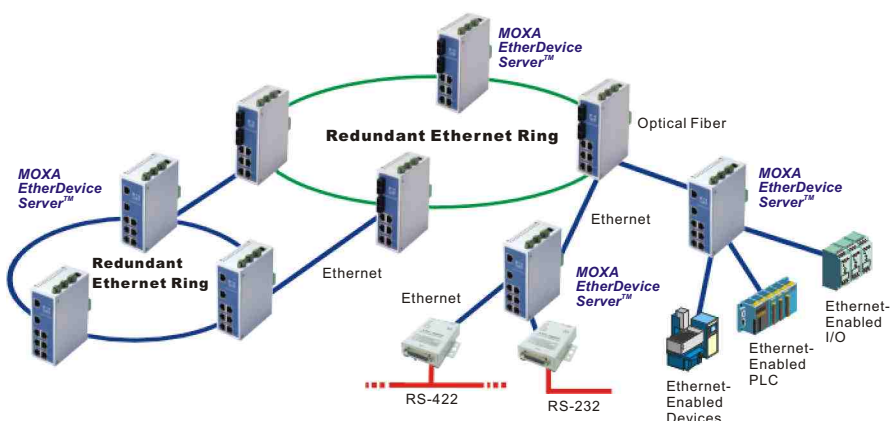
- Prevent critical losses by keeping your automation system running continuously
- Control and maintenance functions ideally suited for field applications
- Hardened industrial design works reliably in harsh environments
- Friendly web GUI makes MOXA EtherDevice Server™ extremely easy to use
- Reduces maintenance personnel's on-site tasks

## Applications

- Industrial/Factory Automation
- Automotive
- Chemical
- Food and Beverage
- Marine
- Metals and Mining
- Government/Military
- Oil and Gas
- Paper Production
- Pharmaceutical
- Power and Energy
- Textile Manufacturing
- Traffic Control
- Wastewater Treatment



User friendly web configuration help you manage your network and device.



## Specifications

### Interface

RJ45 Ports	10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection
Fiber Ports	100BaseFX ports (SC connector)
Console	RS-232 (RJ45)
LED Indicators	Power, Faults, ACT, LNK, 10/100
Alarm Contact	One relay output with current carrying capacity of 1A @ 24 VDC

### Technology

Standards	IEEE802.3, 802.3u, 802.3x, 802.1D
Forward and Filtering Rate	148810 pps
Packet Buffer Memory	256 KB
Processing Type	Store and Forward, with IEEE802.3x full duplex, non-blocking flow control
Address Table Size	4K uni-cast addresses
Latency	Less than 5 $\mu$ s
Management	SNMP V1.2c, MIB-II, Ethernet-like MIB, OPC Server (future release)

### Optical Fiber

Distance	Single mode fiber for 15 km, Multi mode fiber for 2 km
Wavelength	1310 nm
Min. TX Output	-15 dBm (Single), -19 dBm (Multi)
Max. TX Output	-8 dBm (Single), -14 dBm (Multi)
Sensitivity	-36.4 dBm (Single), -35.2 dBm (Multi)

### Power

Input Voltage	9—32 VDC, redundant inputs
Input Current (@24V)	0.35A: (ED6008) 0.45A: (ED6008-M-SC, ED6008-S-SC) 0.55A: (ED6008-MM-SC, ED6008-SS-SC)
Connection	Removable Terminal Block (maximum cable diameter = 1.5 mm)
Overload Current Protection	Present, can withstand 2.5A
Reverse Polarity Protection	Present

### Mechanical


Casing	IP30 protection, aluminum case
Dimensions	51.5 x 136.7 x 101.2 mm (W x H x D)

Weight	0.57 kg
Installation	DIN rail, wall mounting

### Environment

Operating Temperature	-20°C to 70°C
Storage Temperature	-40°C to 85°C
Ambient Relative Humidity	10% to 95% (non-condensing)

### Regulatory Approvals

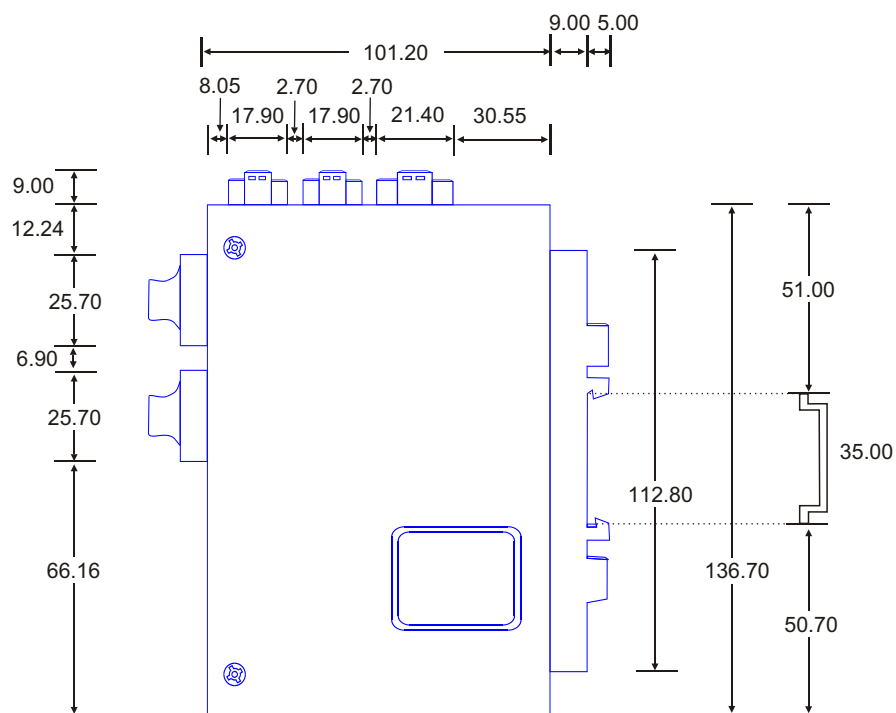
UL/CUL	UL-1950
TUV	EN60950
FCC	Part 15 class A
CE	EMI: EN55022 EMS: EN61000-4-2(ESD), EN61000-4-3(RS), EN61000-4-4(EFT), EN61000-4-5(SURGE), EN61000-4-6(CS), EN61000-4-8(PM), EN61000-4-12(DIP)
Laser Protection	Class 1, complies with EN60825
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF	77,500 hours
WARRANTY	Fi  ev

## Ordering Information

ED6008	MOXA EtherDevice Server™ with 8 10/100BaseTx ports
ED6008-M-SC	MOXA EtherDevice Server™ with 7 10/100BaseTx ports, 1 multi mode 100BaseFX port
ED6008-S-SC	MOXA EtherDevice Server™ with 7 10/100BaseTx ports, 1 single mode 100BaseFX port
ED6008-MM-SC	MOXA EtherDevice Server™ with 6 10/100BaseTx ports, 2 multi mode 100BaseFX ports
ED6008-SS-SC	MOXA EtherDevice Server™ with 6 10/100BaseTx ports, 2 single mode 100BaseFX ports
All items include	User's Manual

### Optional Accessories

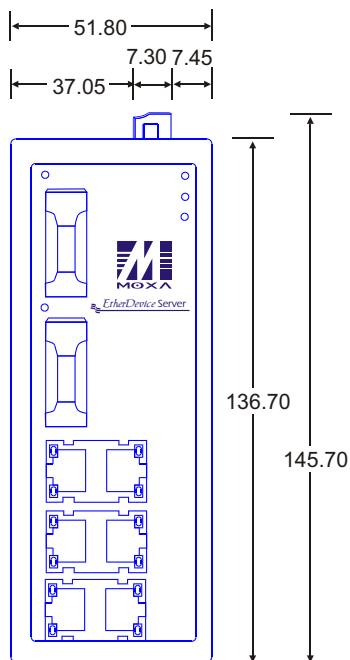
EDP2 Power Adapter	Output: 2A, 12 VDC Input: 90 to 264 VAC Ambient Temperature: 0°C to 40°C
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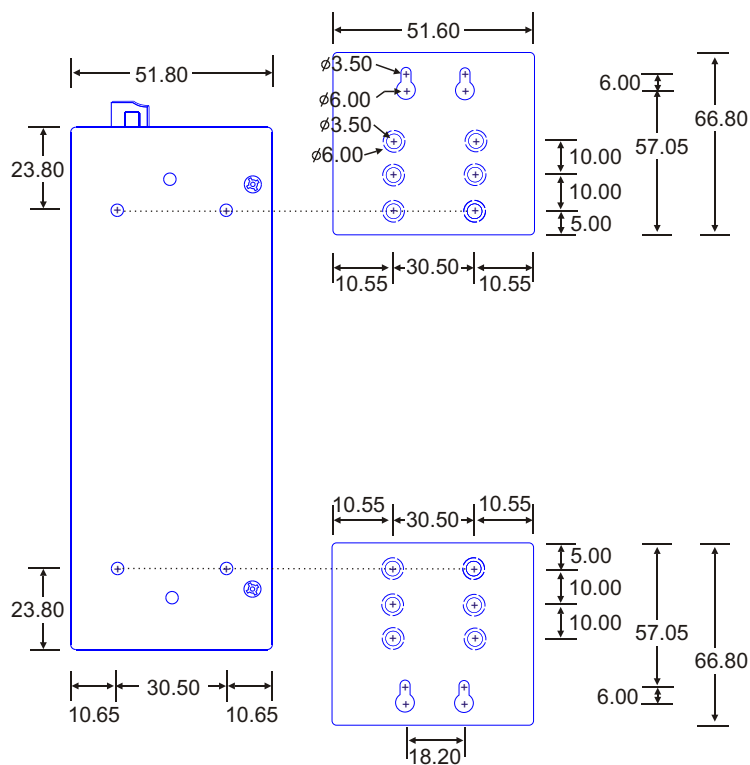
(Unit = mm)

**Side View**

**Din Rail Kit**



**Front View**



**Back View**

**Panel Mount Kit**